

High School to College and Career Pathway: Post-Secondary

Area of Study: Skilled & Technical Sciences Education Pathway: Machine Tool

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|------------------------------------------------------------------------|---------------------------------------------|----------------------|------------------------------------------------------------------------------------------|
| Region: Wasatch Front North Region | District: Davis, Morgan, Ogden, Weber | School: | College/Institution: Articulation Agreement in place? Yes X |
| Contact Person: Janet James | | Ph.#: (801) 626-8547 | Name of Degree or Certificate: AAS Degree in Manufacturing Engineering Technology |
| E-mail: janetjames@weber.edu | | Date: 4/12/07 | |

| High School | | | | College | | |
|-------------------------------|----------------------------------------------------------------------------------|-------------------|-----------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Course Number | High School Suggested Academic Courses | H.S. Credit | College Credits | Course Number | College General Education Requirements | College Credits |
| | CE Writing * | 1 | 3 → | ENGL 1010 | Intro to Writing | 3 |
| | | | | ENGL 2010 | Intermediate Writing | 3 |
| 52.0417 52.0419 52.0471 | Computer Technology* Electronic Spreadsheets & Databases* Word Processing* | .05 .05 .05 | 3 → | TBE 1700 | Introduction to Microcomputer Applications, (2/4) (partially fill requirement) OR 1701 Intro to Word Processing (1) 1702 Intro to Microcomp., E-Mail, OS, & Graphic Presentations (1) 1703 Intro to Spreadsheets (1) OR University Computer Literacy Exams (TBE: TA1501, TB1502 & TC1503) | 2 |
| | | | | ECON SS1010 | Economics as a Social Science | 3 |
| | | | | Gen Ed | HU or CA Elective | 3 |
| | | | | | Support Courses Required (22 credit hours) | |
| | CE Communications * | 1 | 3 → | COMM 2110 | Intro to Interpersonal & Small Group Communication | 3 |
| | | | | CHEM PS/SI 1110 | Elementary Chemistry | 5 |
| | | | | MATH QL1080 | Pre-Calculus | 5 |
| | | | | MATH SI1210 | Calculus I | 4 |
| | | | | PHYS PS/SI2010/L PHYS PS?SI2210/L | College Physics (w/lab) OR Physics for Scientists & Engineers (w/lab) | 5 |

Note: This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. **Note:** * = concurrent ^ = distant → = concurrent

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| High School | | | | College | | |
|------------------------------------------------------|----------------------------------------------------|-------------|-----------------|---------------------------------------------------------|------------------------------------------------------------------------|-----------------|
| Course CIP # | CTE Pathway Courses (4:00 credits for completion) | H.S. Credit | College Credits | Course # | College Major Course Requirements | College Credits |
| | Foundation Courses: (3:00 credits required) | | | | Manufacturing Engineering Tech Courses Required (19 credit hrs) | 19 |
| 48.0503 | Machine Tool * | 1.00 | 3 → | MFET 1210/L | Machine Principles I (3) | |
| | Elective Courses: (1:00 credit required) | | | | | |
| 48.0508 | Welding | 1.00 | | | | |
| 48.0701 | Woodworking | .50 | | | | |
| 32.0199 | Student Internship (Critical Workplace Skills) | .50 | | | | |
| | Additional Articulated Classes | | | | | |
| 21.0122 | Principles of Engineering/PLTW I | .50 | 1 → | MFET 1150 | Pre-Professional Seminar in Manufacturing (1) | |
| | | | | MFET 2150/L | Metal Form, Casting, & Welding (w/lab) (4) | |
| | | | | MFET SI2300 | Statics & Strength of Materials (5) | |
| | | | | MFET SI2410 | Quality Concepts and Statistical Applications (3) | |
| | | | | MFET 2440/L | Computer Numeric Control (CNC) in Manufacturing (w/lab) (3) | |
| | | | | MFET 2899 | Associate's Degree Assessment (0) | |
| | | | | | Technical Courses Required | |
| 15.1302 | CAD Drafting Technology | .50 | 3 → | DGET 1250 | Computer Aided Drafting | 3 |
| 21.012 | Intro to Engineering Design /PLTW II | .50 | 3 → | DGET 1260 | Advanced Computer Aided Drafting | 3 |
| | | | | DGET 2450 | Geometric Dimension & Tolerancing | 2 |
| | | | | CEET 1110 | Basic Electronics | 2 |
| TOTAL Potential Credits Earned in High School | | | 19 | TOTAL Credits Required for Degree or Certificate | | 65 |

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